

**AMORPHOUS METAL STATOR
FOR A RADIAL-FLUX ELECTRIC MOTOR**

ABSTRACT

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An amorphous metal stator for a high efficiency radial-flux electric motor has a plurality of segments, each of which includes a plurality of layers of amorphous metal strips. The plural segments are arranged to form a generally cylindrical stator having a plurality of teeth sections or poles protruding radially inward from the inner surface of the stator. In a first embodiment, the stator back-iron and teeth are constructed such that radial flux passing through the stator crosses just one air gap when traversing each segment of the stator. In a second embodiment, the stator back-iron and teeth are constructed such that radial flux passing through the stator traverses each segment without crossing an air gap.

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